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ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 12/01/2003 10/725,210 Andreas Seidel PO-7824/LeA 36,084 4685 EXAMINER 7590 01/05/2006 BAYER MATERIAL SCIENCE LLC BUTTNER, DAVID J 100 BAYER ROAD ART UNIT PAPER NUMBER PITTSBURGH, PA 15205

1712
DATE MAILED: 01/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	10/725,210	SEIDEL ET AL.
	Examiner	Art Unit
	David Buttner	1712
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		•
1) Responsive to communication(s) filed on 10 N	ovember 2005.	
2a)⊠ .This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1,3-13 and 15-25</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,3-13,15-25</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	er.	•
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correct		
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	ce Action or form PTO-152.
Priority under 35 U.S.C. § 119		••
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119((a)-(d) or (f).
a) ☐ All' b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
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Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informa	Patent Application (PTO-152)
Paper No(s)/Mail Date	6)	·

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Claims 1,3-13 and 15-25 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification provides no tri- or tetrafunctional phenols having amine groups. Isatinbiscresol is believed to have only two phenolic groups (see col 8 line 25 of Idel '009).

Claims 5 and 7 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 lists (meth)acrylic acid esters as possibly being 50-99 parts of the shell, but later limits (meth)acrylic esters to 1-50 parts. The two limitations are inconsistent. A hypothetical shell of 80% methylmethacrylate and 20% ethylacrylate would not meet the claim because the "1-50 parts" limitation would be violated. Is this intended?

Isatinbiscresol is believed to have only two phenolic groups (see col 8 line 18 of Idel '009). Therefore, claim 7's isatinbiscresol cannot qualify as the trifunctional phenolic of claim 1.

Claims 1,3-7,10-13,15-19 and 21-25 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Itagaki '766.

Itagaki exemplifies blends of polycarbonate, metablenS2001, phosphate flame retardant and PTFE. MetablenS2001 is one of applicant's preferred grafts (see page 22

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line 27 of spec). Although the examples do not use branched polycarbonates, Itagaki (col 3 line 63) teaches the polycarbonate can be branched with isatinbiscresol. Use of such a branched polycarbonate would have been obvious if not considered anticipatory.

Claims 8-10 rejected under 35 U.S.C. 103(a) as being unpatentable over Itagaki '766 in view of Idel '009.

Itagaki does not teach how much branching agent to use in the polycarbonate.

Idel exemplifies polycarbonates containing small amounts of isatinbiscresol col 10 line 25). It would have been obvious to use these small amounts of branching agent in Itagaki's polycarbonate for the expected advantages. Also note Idel correlates MW to relative viscosity (col 7 line 41-45).

Applicant's arguments filed 11/10/05 have been fully considered but they are not persuasive.

Applicant argues Itagaki does not require his graft to be other than butadiene based.

This is not convincing. Itagaki's graft is based on a acrylate/siloxane composite.

This does not contain butadiene. Applicant's "other than polybutadiene" does nothing to distinguish from Itagaki.

Applicant argues Itagaki's polycarbonate is not necessarily branched.

This is not convincing. Rejection over the broad disclosure (including alternatives) of the prior art is proper (MPEP 2123). A reference that clearly names the claimed species anticipates the claim no matter how many other species are named (MPEP 2131.02).

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Kozakura, J2001226576, WO99/57198 do not have amine functional branching agents. The translation removes the Seidel 2003/153658 rejection. The terminal disclaimer removes the obviousness double patenting.

No previous claim simultaneously required specific amounts of branching and that the branching agent have amine groups. This required the new rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Buttner whose telephone number is 571-272-1084. The examiner can normally be reached on weekdays from 10 to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on 571-272-1302. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVID J. BUTTNER PRIMARY EXAMINER

David Buttner

12/30/05

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